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Applicant : Masashi SAITO  
Serial No. : 09/750,605  
Filed : December 28, 2000  
For : INTRAORAL IMAGING CAMERA SYSTEM  
Group Art Unit : 3732  
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Frank J. Jordan  
(Name of Registered Representative)

[Signature] 05/31/01  
(Signature and Date)

Assistant Commissioner  
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INFORMATION DISCLOSURE STATEMENT

Sir:

Attached hereto is a copy of Form PTO-1449 together with copies of the two references listed therein.

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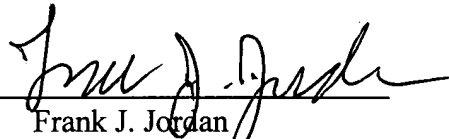
Serial No. 09/750,605

This Information Disclosure Statement is being filed prior to issuance of the first Official Action. Therefore, there is no charge for filing this IDS.

Respectfully submitted,

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By



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## Information Disclosure Statement

1 While conducting experiments on taking photographs of the interior of an oral cavity with digital cameras and conventional ring-flash, I found that the direction of the light-receiving surface of the photo-metering sensor has to be located on the optical axis of the lens.

2 I supposed that "Macro Flash Sensor Type-2," a photo-metering sensor manufactured by National ( refer to the attached National/Panasonic catalogue; Products No. PW-52M) was useful because the sensor was an object independent from the control part of the ring-flash.

3 Ring-flashes easily available on the market were manufactured only by SUNPAK KABUSHIKI KAISHA or SUNPAK INC. and they do not adapt to the National "Macro Flash Sensor Type-2". In order to make available the SUNPAK ring-flashes (refer to the attached SUNPAK catalogue; products no. auto DX8R or auto DX12R), I chose a SUNPAK photo-metering sensor and the SUNPAK "DX Remote Code"(refer to SANPAK catalogue; products no.EXT-09 or EXT-10), whose combination enabled the photo-metering sensor located apart from the control part of the ring-flash and provided on top of the front of the lens-barrel.

4 However, as the combination did not work well, I could not take such good photographs as I had expected. Accordingly, I changed the location of the photometering sensor in several ways as well as the angle at which the photo-metering sensor was attached to the lens-barrel.

5 Then, I found attaching the sensor to the lower part of the lens-barrel and setting it at an angle of about 23 degrees against the surface perpendicular to the optical axis of the lens works well in various conditions. Further, even in a few cases in which appropriate exposures are not obtained, free rotation of the photo-metering sensor in the circumferential direction of the ring flash enables appropriate exposures.

March 14, 2001

Masashi SAITO